PATENT COOPERATION TREATY

PCT

INTERNATIONAL SEARCH REPORT

(PCT Article 18 and Rules 43 and 44)

Applicant's or agent's file reference			
OPP021180KR	FOR FURTHER ACTION		tal of International Search Report 1 as, where applicable, item 5 below.
International application No.	International filing da	ate (day/month/year)	(Earliest) Priority Date (day/month/year)
PCT/KR 2003/002514	20 November	2003 (20.11.2003)	20 November 2002 (20.11.2002)
Applicant			
SAMSUNG ELECTRONICS	CO., LTD.		
This international search report has becacording to Article 18. A copy is bein			ority and is transmitted to the applicant
This international search report consist	-		
	_	prior art document cited in	this report.
			pasis of the international application in the
the international search Authority (Rule 23.1(b)		ne basis of a translation of th	e international application furnished to this
b. With regard to any nucleotic search was carried out on the			international application, the international
contained in the internal	tional application in	written form.	
filed together with the in	nternational applicati	ion in computer readable for	m.
furnished subsequently	to this Authority in v	vritten form.	
furnished subsequently	to this Authority in c	computer readable form.	
the statement that the su international application as fi			es not go beyond the disclosure in the
the statement that the in been furnished.	formation recorded i	n computer readable form is	identical to the written sequence listing has
2. Certain claims were fo	ound unsearchable (See Box I).	
3. Unity of invention is la	icking (See Box II).		
4. With regard to the title,			
the text is approved as s	submitted by the appl	licant.	
the text has been establi	shed by this Authori	ty to read as follows:	
5. With regard to the abstract,			
the text is approved as s	submitted by the app	licant.	
I		· ·	ty as it appears in Box III. The applicant may, eport, submit comments to this Authority.
6. The figure of the drawings to be	published with the a	bstract is Figure No.:1_	
as suggested by the app	licant.		None of the figures.
because the applicant fa	niled to suggest a figu	ıre.	
because this figure bette	er characterizes the in	nvention.	
1			

International application No. PCT/KR 03/02514-0

Box III TEXT OF THE ABSTRACT (Continuation of item 5 of the first sheet)
A device of driving a liquid crystal display including a plurality of pixels connected to gate lines and data lines and arranged in a matrix is provided. The driving device includes: a gray voltage generator (800) generating a plurality of gray voltages; an image signal modifier (600) receiving first image signals for a pixel row and second image signals for a next pixel row, selecting modified image signal depending on the first image signals and the second image signals, and outputting the modified image signals; and a data driver (500) selecting data voltages from the gray voltages based on the modified image signals from the image signal modifier and applying the data voltages to the pixels.

Form PCT/ISA/210 (continuation of first sheet (2)) (July 1998)

International application No. PCT/KR 03/02514-0

CLASSIFICATION OF SUBJECT MATTER

IPC7: G09G 3/36, G09G 3/20, G02F 1/133, H04N 5/66

According to International Patent Classification (IPC) or to both national classification and IPC

B. FIELDS SEARCHED

Minimum documentation searched (classification system followed by classification symbols)

IPC⁷: G09G, G02F, H04N

Documentation searched other than minimum documentation to the extent that such documents are included in the fields searched

Electronic data base consulted during the international search (name of data base and, where practicable, search terms used)

WPI, PAJ, EPODOC, English Fulltext

Category	Citation of document, with indication, where appropriate, of the relevant passages	Relevant to claim No.
P,A	US 2003/0058211 A1 (KIM et.al.) 27 March 2003 (27.03.2003) the whole document.	1-12
P,A	US 2003/0151579 A1 (LEE) 14 August 2003 (14.08.2003) the whole document.	1-12
Α	US 6359389 B1 (EVANICKY et.al.) 19 March 2002 (19.03.2002) the whole document.	1-12
Α	US 6429841 B (LEE) 6 August 2002 (06.08.2002) the whole document.	1-12
Α	KR 2002 017318 A (SAMSUNG ELECTRONICS CO LTD) 7 March 2002 (07.03.2002) the whole document.	1-12
Α	EP 1122711 A (SAMSUNG ELECTRONICS CO LTD) 8 August 2001 (08.08.2001) the whole document.	1-12

* Special categories of cited documents: "A" document defining the general state of the art which is not considered to be of particular relevance "E" earlier application or patent but published on or after the international filing date "L" document which may throw doubts on priority claim(s) or which is cited to establish the publication date of another citation or other special reason (as specified) "O" document referring to an oral disclosure, use, exhibition or other means "P" document published prior to the international filing date but later than the priority date claimed	"T" later document published after the international filing date or priority date and not in conflict with the application but cited to understand the principle or theory underlying the invention "X" document of particular relevance; the claimed invention cannot be considered novel or cannot be considered to involve an inventive step when the document is taken alone "Y" document of particular relevance; the claimed invention cannot be considered to involve an inventive step when the document is combined with one or more other such documents, such combination being obvious to a person skilled in the art "&" document member of the same patent family
Date of the actual completion of the international search	Date of mailing of the international search report
18 May 2004 (18.05.2004)	23 June 2004 (23.06.2004)
Name and mailing adress of the ISA/AT Austrian Patent Office Dresdner Straße 87, A-1200 Vienna Facsimile No. 1/53424/535	Authorized officer WALTER P. Telephone No. 1/53424/569

See patent family annex.

Form PCT/ISA/210 (second sheet) (July 1998)

Further documents are listed in the continuation of Box C.

International application No.

PCT/KR 03/02514-0

PCT/KR 03/02514-0					
Citation of document, with indication, where appropriate, of the relevant passages	Refevant to claim No				
JP 09 090910 A (MATSUSHITA DENKI SANGYO KK) 4 April 1997 (04.04.1997) the whole document	1-12				
·					
	JP 09 090910 A (MATSUSHITA DENKI SANGYO KK) 4 April 1997 (04.04.1997)				



Information on patent family members

International application No. PCT/KR 03/02514-0

	Patent document cited in search report		Publication date	į	Patent family member(s)		Publication date
BP	A	1122711		TW	В	516011	2003-01-01
				KR	A	2002044672	2002-06-19
				KR	A	2002010216	2002-02-04
				KR	A	2001077568	2001-08-20
				US	A	2001038372	2001-11-08
				JP	A	2001265298	2001-09-28
JР	A	910A2				none	
KR	A	20020173	2002-03-07			none	-
		18					
US	A	20030058				none	
		211					
US	A	20030151				none	
		579					
US	В	6359389	2002-03-19			none	
US	B	6429841	2002-08-06	KR	A	2000013602	2000-03-06